Comfort Digisystem User Manual

SecureStream Technology

Comfort Digisystem

Programmer DT05

English

Comfort Audio
HEAR THE FUTURE

User Manual

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Introduction to the Comfort Digisystem

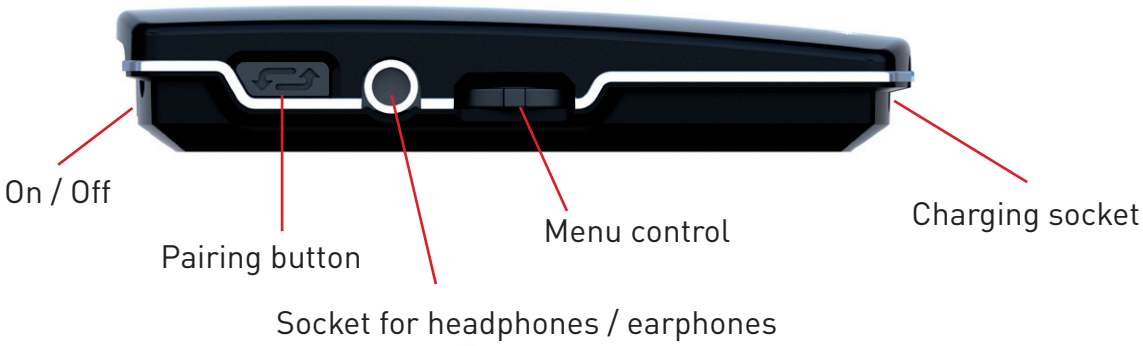
Thank you for choosing Comfort Digisystem. Our products are easy to use and give you crystal clear sound.
Before using the product, please read this manual carefully.

The Comfort Digisystem products feature SecureStream Technology – a unique, patented digital technology allowing eavesdrop-secure radio transfer in real time.

Comfort Digisystem Programmer DT05

The optional professional tool Programmer DT05 can be used to configure the Receiver DT10.
The Programmer DT05 also makes it easy to test the Receiver DT10 with or without a hearing instrument.

Functions Programmer DT05 - professional tool



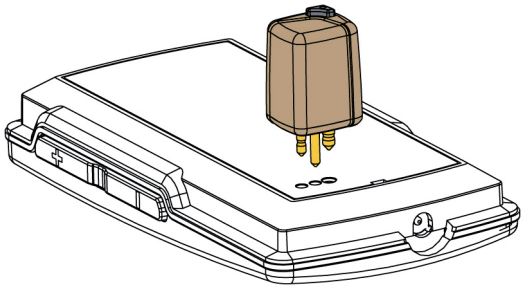
Programmer DT05

The Programmer DT05 is an optional professional tool that can be used both for configuring and test-listening of the DT10.

The Programmer DT05 can be used to configure **one setting at a time** in the Receiver DT10. Select the desired setting in the menu and double press the pairing button. The Receiver DT10 must be set to pairing mode.

The Programmer DT05 can also be used to configure **all settings at the same time** in a DT10. To do this, adjust all parameters in the DT05 and then select *Send all* on the DT05 menu. The Receiver DT10 must be set to pairing mode.

Receiver DT10 can be configured while connected to the hearing aid. The distance between the Programmer DT05 and the Receiver DT10 should not exceed 0.5 meters.



To listen to a DT10, plug it into the socket on the programmer and connect headphones or a neck-loop.

Menu control

Scroll up

Press / select

Scroll down

To access the menu, press the menu control and then scroll up or down.

Press the menu control to select.

Menu in the DT05

R enable
R
R+M enable
R+M
Tone ind.
Auto sleep
Pairing
Always on
Send all
Settings
- *HA scanner*
- *Language*
- *Factory Reset*
- *About*

Back (relates to both the main menu and submenus)
Here you can choose to return to the menu and to the main display.

R enable
Enables selection of R mode with the push-button on the Receiver DT10.

R
Adjusts the output level of the Receiver DT10 when using R mode.

R+M enable
Enables selection of R+M mode with the push-button on the Receiver DT10.

R+M
Adjusts the output level of the Receiver DT10 when using R+M mode.

Tone ind.
Activates acoustic indication tones when selected. Indication for pairing mode and pairing is always heard even if *Tone ind.* is disabled.

Auto sleep
When *Auto sleep* is enabled the Receiver DT10 goes into sleep mode if the Digisystem Microphone (transmitter), is turned off. This significantly reduces the power consumption of the Receiver DT10. The Receiver DT10 automatically starts again when you turn on your microphone.

Warning! If the Receiver DT10 is in sleep mode and another radio signal (with the same frequency that you are using) is present, the Receiver DT10 might start again automatically. This could cause a loud hissing noise and that's why *Auto sleep* should be used with caution.

Pairing

When *Pairing* is selected, the DT10 can be set to pairing mode by pressing the push-button for two seconds.
If *Pairing* isn't selected, pairing mode cannot be enabled with the push-button. To override this, (if the Receiver DT10 needs to be reconfigured or if new pairing information needs to be received), press and hold the push-button on the Receiver DT10 for 2 seconds **within** 10 seconds of it having been connected to a hearing instrument or a Programmer DT05. This sets the Receiver DT10 to Pairing mode and it is then ready to receive new settings from the Programmer DT05.

Receiver DT10 can receive but not send pairing information. In order to be able to pair a Receiver DT10 with a Comfort Digisystem transmitter the Receiver DT10 must be connected to the hearing aid or to the Programmer DT05.

Example: Make a new eavesdrop secure configuration with one Microphone DM80 and two Receiver DT10s using the Programmer DT05:

1. Put one of the Receiver DT10s into the Programmer DT05.

2. Start the Programmer DT05 and connect headphones or a neck loop to be able to listen.

3. Activate pairing mode for the DT10 by pressing the push-button for 2 seconds.
   In the headphones/neckloop you receive an acoustic indication:

4. Start the Microphone DM80 and open the menu. Select *Communication/ Pairing/New code key* and answer *Yes* to the question of whether you want to create a new code key and transmit it.

5. The Receiver DT10 confirms successful pairing with an acoustic indication:

6. Remove the paired DT10 and connect the other DT10 into the Programmer DT05.
7. Activate pairing mode on the DT10 by pressing the push-button for 2 seconds.
   In the headphones/neckloop you receive an acoustic indication:
8. Open the menu on the DM80 and select *Communication/Pairing/Send info*.
9. The Receiver DT10 confirms successful pairing with an acoustic indication:

Always on

The setting *Always on*, disables the off-function of the push-button, leaving the Receiver DT10 always on. Receiver DT10 is turned off when turning off the hearing aid.

> If you enable *Always on* and at the same time disable *Pairing*, the push-button on the Receiver DT10 becomes inoperable.

Send all

To configure a Receiver DT10 with all settings in the display of the Programmer DT05 select *Send all.* If you choose *Send all,* you will receive the warning "All settings in DT10 will be overwritten". Only select *Yes* if you want to overwrite all data in your Receiver DT10.

Settings

HA scanner

The HA scanner is used for detecting how much interference there is from a hearing aid, within the frequency band that the Receiver DT10 is operating in.

Language

For selection of menu language.

Factory Reset

DT05: Resets the Programmer DT05 to its default settings.
DT10: Resets the Receiver DT10 to its default settings, which means that also all pairing information is deleted. Receiver DT10 must be set into pairing mode in order to be reset to default settings.
To prevent eaves-dropping a new code key must be generated.

About

Software information.

Instruction HA scanner in Programmer DT05

The HA scanner is used for detecting how much interference there is from a hearing aid, within the frequency band that the Receiver DT10 is operating in.

How to use the scanner:

1. Enter Setting in the menu of the Programmer DT05 to activate the scanner.

2. Make sure that the hearing aid is on and that the Receiver DT10 is NOT attached.

3. Place the hearing aid close to the Programmer DT05 (see picture below) and find the position where the interference is worst.

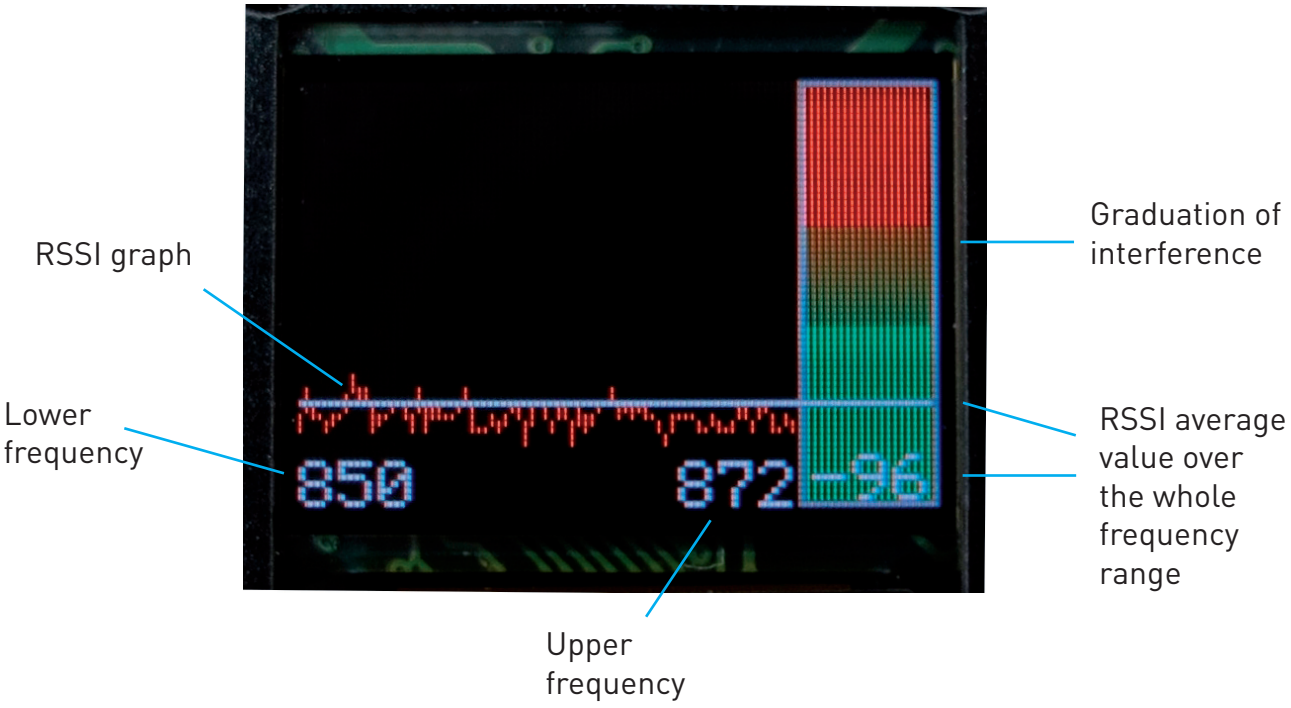
How to read the scanner:

The scanner reads and draws the RSSI-value on the frequencies between 850 och 872 MHz. (RSSI = Received Signal Strength Indicator)

The white horizental line indicates an average value of RSSI over the whole frequency range.

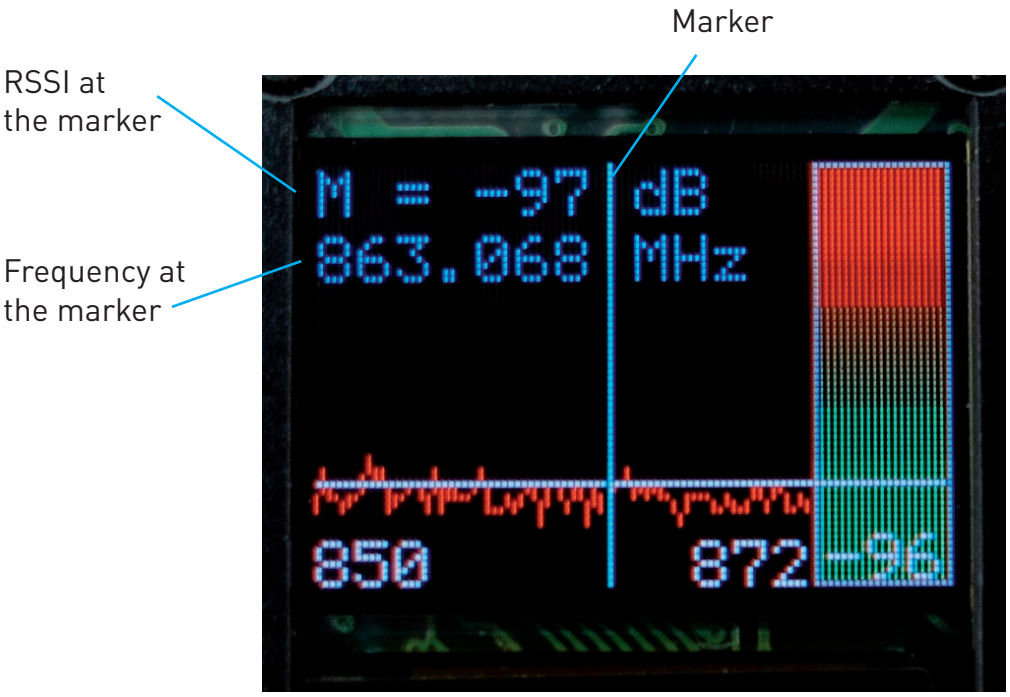
Use the graduation bar to the right to determine how strong the interference is. If the level of interference is above the green field, the Receiver DT10's ability to receive the signal from the transmitter will be reduced.

To facilitate the reading you can press the pairing button for 3 seconds. Then the drawing will freeze. Just press the button again to restart the scanning.



Reading of specific frequencies:

If you move the menu control up or down a marker (vertical line) will appear. This is to make a more precise reading of a specific frequency. Press the pairing button briefly to remove the marker.



Trouble shooting

The receiver does not start

1. Check that the correct listening program is selected on the hearing instrument.
2. Make sure the Receiver DT10 is correctly connected to the hearing instrument's audio shoe. Also check the connection between the audio shoe and the hearing instrument.
3. Make sure all connecting surfaces are clean.
4. Check/replace the hearing instrument's battery.
5. Remember to press the push-button briefly to switch the DT10 on.

Poor speech intelligibility

The distance between the transmitter and the receiver may be too long. The range is around 15 meters.
The distance between the microphone and the talking person may also be too long; move the microphone closer to the talking person.
Try changing the channel/environment.

Poor range and interference

In some environments, such as in buildings with a lot of concrete, iron or sheer metal structures, the range may be reduced.
There may also be electronic equipment nearby causing interference. Change the channel.

No sound

Check that the transmitter and the receiver are set to the same channel.

Loud hissing noise

Check that the Comfort Digisystem units you are using are paired together.
If *Auto sleep* is enabled, the Receiver DT10 goes into sleep mode if there is no radio signal. But if another radio signal (with the same frequency you are using) is present, the Receiver DT10 might start again automatically. This could cause a loud hissing noise and that's why *Auto sleep* should be used with caution.

Service and warranty

Comfort Audio AB accords a limited warranty for two years as of the date of delivery. This covers all defects of manufacture and materials. For accessories the warranty period is 90 days as of the date of delivery. Local agreements or regulations may exist.

Defects caused by careless handling or intervention inside the product or its accessories are not covered by the warranty.

It is perfectly normal that the battery's capacity decreases gradually. Battery lifetime depends on how the product is used. Contact your point of purchase when it is time to change the battery.

You are always welcome to contact Comfort Audio if you have any questions.

Technical data

Range:	Approx. 2 m
Dimensions:	74 x 39 x 13 mm
Weight:	35 g

Important safety instructions — read before using your product

1) Read these instructions.

2) Keep these instructions.

3) Heed all warnings.

4) Follow all instructions.

5) Do not use this apparatus near water.

6) Clean only with dry cloth.

7) Do not use near any heat sources such as radiators heat registers stoves, or other apparatus (including amplifiers) that produce heat.

8) Do not defeat the safety purpose of the polarized or grounding plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit your electrical outlet, consult an electrician for replacement of the incorrect outlet — (only when using polarized plug).

9) Protect the power cord from being walked on or pinched particularly at plugs convenience receptacles. and the point where they exit from the apparatus.

10) Only use attachments/accessories specified by Comfort Audio AB.

11) Unplug this apparatus during lightning storms or when unused for long periods of time.

12) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way (such as if a liquid has been spilled on the apparatus, the apparatus has been subject to impact by another object or dropped or the apparatus has been exposed to rain or moisture) or does not operate normally.

13) Start listening at a low volume.

14) Too high a volume can seriously damage your hearing.

15) Don't dissasemble the product.

16) Should the product break open because of damage, service should only be done by qualified service personnel.

17) Never use a transmitter or receiver set to a non-permitted frequency. Check with the frequency regulatory agency in the country where the equipment is to be used.

18) The product contains sensitive electronic equipment and must be handled carefully.

19) Never charge product in closed, unaired spaces such as handbags, cases or other closed storage bags.

20) Only use batteries and power supply specified by Comfort Audio AB.

21) You must not change the battery yourself; please contact your point of purchase.

22) CAUTION! Danger of explosion if battery is incorrectly replaced.

23) The product must not be exposed to excessive heat such as sunshine, open flames or the like.

24) Products include radio transmitters. Do not use products where the use of electronic equipment is not permitted, such as on airplanes.

25) The necklace should not be used if there is a risk of getting stuck, e.g. in a machine or other objects.

26) Keep small parts out of reach of children and animals. Choking hazard if swallowed.

27) To prevent battery damage, do not leave the product discharged for too long time.

28) Disconnect the charger if the product is not used for a longer period.

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